

## Patent Abstracts of Japan

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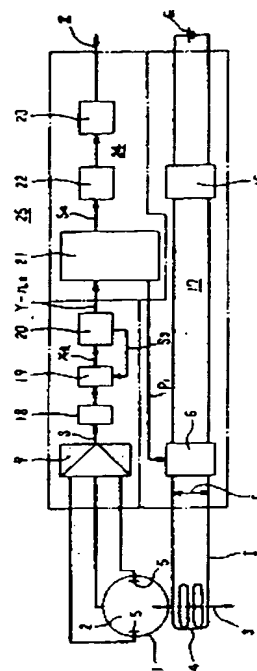
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TITLE : LOW FREQUENCY EXCITING  
ELECTROMAGNETIC FLOW METER



**ABSTRACT :** PURPOSE: To prevent the generation of a measuring error based on sine wave like noise induced by an AC source such as a commercial power source, by providing an analogue/digital converter and an adaptable type movement average filter.

CONSTITUTION: The output signal of an analogue filter 18 is inputted to an analogue/digital converter 19 while a digital signal  $X_k$  is inputted to an adaptable type movement average filter 20 which, in turn, performs the predetermined operation of said signal  $X_k$  to outputs sample value series  $Y_{-n_0}$  as a digital signal from which the sine wave like noise contained in the signal  $X_k$  is removed. Further, a pulse like sampling order signal is continuously outputted from the filter 20 and inputted to the converter 19 to be converted to the digital signal  $X_k$  in synchronous relation to the signal of a filter 18. In addition, the signal  $Y_{-n_0}$  is inputted, and sampling and operation are performed to output a digital signal  $S_4$  to a pulse modulator 22.

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